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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/820,812

04/09/2004

Janice Chiu

58268.00360

8879

32294

7590

07/18/2006

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EXAMINER

JACKSON, BLANE J

ART UNIT

PAPER NUMBER

2618

DATE MAILED: 07/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/820,812	Applicant(s) CHIU, JANICE	
	Examiner Blane J. Jackson	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4,6,8,11,14,16,18 and 20 is/are rejected.
- 7) ☒ Claim(s) 2,3,5,7,9,10,12,13,15,17 and 19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4, 6, 8, 11, 14, 16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brehmer et al. (US 5,893,028).

As to claims 1, 8 and 16, Brehmer teaches a method and a signal strength indicator circuit comprising:

A signal input for receiving an input signal (figures 1 and 5, column 1, lines 22-40, the differential input (IM and IP)),

A set of rectifiers including an asymmetric switching pair of rectifiers for providing an output signal that is inversely proportional to the input signal (figure 5, column 2, lines 1-53, rectifying circuits (13a-13e)),

A signal output for outputting the output signal (figure 5, (IOUT) is the RSSI output of the circuit).

Brehmer does not specifically teach a first side of the asymmetric switching pair is operably connected to a power supply through a resistor. Brehmer teaches where a first and second side of the asymmetric switching pair is operably connected to a power supply through p-channel diode-connected transistors (MP1 and MP2) to define circuit

loads in accordance with CMOS technology, column 2, lines 33-41, therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to recognize the transistor circuit loads of Brehmer may be replaced by resistors consistent with other integration technologies to functionally create the same rectified output voltage signal.

As to claims 4 and 18, Brehmer teaches the circuit of claims 1 and 16 further comprising a set of amplifiers that are operably connected to the set of rectifiers (figure 1, column 1, lines 22-51, limiter/amplifiers (11a-11e)).

As to claims 6 and 20, Brehmer teaches the circuit of claims 1 and 16 wherein the signal input is configured to receive a first portion of the input signal from a first mixer and a second portion of the input signal from a second mixer (column 1, lines 5-40, figure 1 shows the differential IF stage directly following downconversion in a RF receiver).

As to claim 11, Brehmer teaches the method of claim 8 further comprising the step of amplifying the input signal through a set of amplifiers (figure 1, column 1, lines 22-51, limiter/amplifiers (11a-11e)).

As to claim 14, Brehmer teaches the method of claim 8 wherein the receiving step comprises receiving a first portion of the input signal from a first mixer and a

second portion of the input signal from a second mixer (column 1, lines 5-40, figure 1 shows the differential IF stage directly following downconversion in a RF receiver).

Allowable Subject Matter

Claims 2, 3, 5, 7, 9, 10, 12, 13, 15, 17 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon but considered pertinent to applicant's disclosure including: Bae (US 2004/0038657), Yoshizawa (US 6,311,049) and Highton (US 4,578,820).

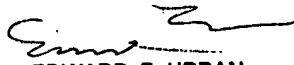
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blane J. Jackson whose telephone number is (571) 272-7890. The examiner can normally be reached on Monday through Friday, 9:00 AM-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BJJ


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